CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/533e/CEMENT/2017-18 Date: 04.01.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to roads and drains at between 6th main & 7th main cross roads, 3rd, 4th & 5th cross Manjunatha Nagara in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Sample ID	:	Cement – Sample 2
Sample Received on	:	01.01.2018
Period of Testing	:	01.01.2018 to 04.01.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/533e/SAND-Gradation/2016-17 04.01.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to roads and drains at between 6th main & 7th main cross roads, 3rd, 4th & 5th cross Manjunatha Nagara in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Sample ID	:	Fine Aggregates - Sample 2
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	01.01.2018
Date of Testing	:	04.01.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.10	90-100	90-100	90-100	95-100
2.36	79.10	60-95	75-100	85-100	95-100
1.18	59.10	30-70	55-90	75-100	90-100
600 Micron	40.80	15-34	35-59	60-79	80-100
300 Micron	19.30	5-20	8-30	12-40	15-50
150 Micron	6.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/533e/AGG/GR/2017-18 04.01.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to roads and drains at between 6th main & 7th main cross roads, 3rd, 4th & 5th cross Manjunatha Nagara in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Sample ID	:	Coarse Aggregates (40mm) - Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	01.01.2018
Date of Testing	:	04.01.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.90	95-100	85-100
20	38.98	30-70	0-20
10	16.48	10-35	0-5
4.75	2.48	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.14/Steel/2016-17 05.01.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements to roads and drains at between 6th main & 7th main cross roads, 3rd, 4th & 5th cross Manjunatha Nagara in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	05.01.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	553	13.1	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.14/Steel/2016-17

05.01.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements to roads and drains at between 6th main & 7th main cross roads, 3rd, 4th & 5th cross Manjunatha Nagara in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	05.01.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	516	557	13.35	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/533e/Cube/2017-18 07.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains at between 6th main & 7th main cross roads, 3rd, 4th & 5th cross Manjunatha Nagara in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.02.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2018	07.02.2018	8.198	474.8	21.10
2	10.01.2018	07.02.2018	8.205	498.3	22.15
3	10.01.2018	07.02.2018	8.330	513.5	22.82

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* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.02.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2018	07.02.2018	8.123	483.6	21.49
2	10.01.2018	07.02.2018	8.280	512.5	22.78
3	10.01.2018	07.02.2018	8.380	522.8	23.24

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10.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.02.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.01.2018	10.02.2018	8.289	495.6	22.03
2	13.01.2018	10.02.2018	8.335	518.5	23.04
3	13.01.2018	10.02.2018	8.408	528.5	23.49

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* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
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* Name of the work	:	Improvements to roads and drains at between 6th main & 7th main cross roads, 3rd, 4th & 5th cross Manjunatha Nagara in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.02.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.01.2018	10.02.2018	8.159	482.5	21.44
2	13.01.2018	10.02.2018	8.215	508.6	22.60
3	13.01.2018	10.02.2018	8.380	512.4	22.77

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-01/533e/Pre Slab/2017-18

18.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements to roads and drains at between 6th main & 7th main cross roads, 3rd, 4th & 5th cross Manjunatha Nagara in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	EE/DD/W.O/89/2017-18 Dated: 20.11.2017
* Sample ID	:	Precast slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	14.01.2018
Date of Testing	:	18.01.2018

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.385	2513.83	1.56	0.952	32.65	16.63	17.96	18.85	23.57
2	50.00	80.00	0.393	2501.92	1.60	0.957	33.90	17.27	18.65	17.84	22.30
3	50.00	79.00	0.389	2507.80	1.58	0.955	35.15	17.90	19.33	18.46	23.07

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